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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,642	12/14/2000	Daniel C. Wang	ACT-311 2280	
7.	590 09/11/2002			
Kenneth D'Alessandro			EXAMINER	
Sierra Patent G P.O. Box 6149	•		DIAZ, JOSE R	
Stateline, NV	89449		ART UNIT	PAPER NUMBER
			2815	
			DATE MAILED: 09/11/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

34			Un
		Application No.	Applicant(s)
	Offic Action Summers	09/737,642	WANG, DANIEL C.
	Offic Action Summary	Examiner	Art Unit
		José R Díaz	2815
Period fe	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	rrespondence address
I HE - Exte after - If the - If NC - Failu - Any	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the	s will be considered timely. the mailing date of this communication.
1)🖂	Responsive to communication(s) filed on 11 J	lune 2002 .	
2a)⊠		is action is non-final.	
3) Dispositi	Since this application is in condition for alloware closed in accordance with the practice under too of Claims	ance except for formal matters, pro	osecution as to the merits is 53 O.G. 213.
4)⊠	Claim(s) 1-10 is/are pending in the application		
ŀ	4a) Of the above claim(s) is/are withdraw		
	Claim(s) is/are allowed.		
	Claim(s) <u>1-10</u> is/are rejected.		
	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction and/or	election requirement	
	on Papers	olocion roquiroment.	
9) 🗆 -	The specification is objected to by the Examiner		
10) 🔲 -	The drawing(s) filed on is/are: a)□ accep	ted or b)⊡ objected to by the Exam	niner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
11) 🔲 🗆	The proposed drawing correction filed on		
	If approved, corrected drawings are required in rep	ly to this Office action.	
12) 🔲 🛚	Γhe oath or declaration is objected to by the Exa	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-	-(d) or (f).
a)[☐ All b) ☐ Some * c) ☐ None of:		
	1. Certified copies of the priority documents	have been received.	
	2. Certified copies of the priority documents	have been received in Applicatio	n No
	3. Copies of the certified copies of the priori application from the International Buree the attached detailed Office action for a list of	ty documents have been received eau (PCT Rule 17.2(a)).	I in this National Stage
	cknowledgment is made of a claim for domestic	•	
	☐ The translation of the foreign language provicknowledgment is made of a claim for domestic		
Attachment			
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) stent Application (PTO-152)
.S. Patent and Tra PTO-326 (Rev		ion Summary	Part of Paper No. 6

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DETAILED ACTION

Claim Rejections - 35 USC § 102

> Claims 1, 3-5 and 10 are still rejected under 35 U.S.C. 102(e) by Shao et al. (US Pat. No. 6,124,194). See last Office action, mailed on January 31, 2002.

Claim Rejections - 35 USC § 103

➤ Claims 2 and 6-9 are still rejected under 35 U.S.C. 103(a) by Shao et al. (US Pat. No. 6,124,194) in view of Yeouchung et al. (US Pat. No. 6,001,693. See last Office action, mailed on January 31, 2002.

Response to Arguments

- Applicant's arguments filed June 11, 2002 have been fully considered but they are not persuasive. Applicant argues that the invention of Shao et al is made by a different process, which results in a "large" structure. However, the Examiner disagrees. First, the method uses by Shao et al. is of no concern when the claimed structure is taught by Shao. Second, the claimed structure does not include limitations as to size. Thus, Applicant's arguments are not persuasive since Shao teaches the claimed structure.
- With regard to the arguments about the first cap layer, Applicant should note that Shao et al anticipate such a limitation. For example, Figure 4 shows a first cap layer (28) having a via formed therethrough (e.g. consider the opening formed between left and right portions of the first cap layer (28)), such that the lower Cu metal layer (26) is exposed and electrically connected to a lower barrier layer (36). Further, the second cap layer (40, 42) can be found in Fig. 10 of Yeouchung et al. Therefore, Applicant's

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argument are not persuasive since the combination of references teach "all the claim limitations."

Conclusion

> THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R Díaz whose telephone number is (703) 308-6078. The examiner can normally be reached on 9:00-5:00 Monday, Tuesday, Thursday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 746-3891 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JRD September 7, 2002

eddie Lee

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